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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/476,443	12/30/1999	RAJEEV K. NALAWADI	042390.P6349	7862
7590 02/12/2004 BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 12400 WILSHIRE BOULEVARD SEVENTH FLOOR LOS ANGELES, CA 90025			VO, TIM T	
			20011110222	o, c.r 200 <b>2</b> 0
		DATE MAILED: 02/12/2004	' /	

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.	Applicant(s)			
Offic Action Summary		09/476,443	NALAWADI, RAJEEV K.				
		Examiner	Art Unit				
			Tim T. Vo	2112			
Period fo		ING DATE of this communication app	ears on the cover sheet with	the correspondence address			
THE N - Extens after S - If the p - If NO - Failum Any re	MAILING D sions of time re SIX (6) MONTH period for reply period for reply e to reply withing eply received b	STATUTORY PERIOD FOR REPLY ATE OF THIS COMMUNICATION. The available under the provisions of 37 CFR 1.13 are the mailing date of this communication. Specified above is less than thirty (30) days, a reply of its specified above, the maximum statutory period we have the set or extended period for reply will, by statute, by the Office later than three months after the mailing adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a rep within the statutory minimum of thirty ( ill apply and will expire SIX (6) MONTh cause the application to become ABA	ly be timely filed  30) days will be considered timely.  HS from the mailing date of this communication,  NDONED (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed on <u>02 January 2004</u> .						
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
•							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition	on of Clai	ms					
4)🖂	4)⊠ Claim(s) <u>1-9,11-13 and 15</u> is/are pending in the application.						
4	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)🖂	5) Claim(s) 9,11-13 is/are allowed.						
·		<u>-8 and 15</u> is/are rejected.					
·		is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.							
Application	on Papers	•					
9)[] 1	The specifi	cation is objected to by the Examine	•				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U	.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
A441 .	4-3						
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)							
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Statement(s) (PTO-1449 or PTO/SB/08)  Statement(s) (PTO-1449 or PTO/SB/08)  Faper No(s)/Mail Date  Other:							
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#### **DETAILED ACTION**

1. Claims 1-9, 11-13 and 15 are presented for examination.

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 5 and 15 rejected under 35 U.S.C. 103(a) as being unpatentable over Young U.S Patent No. 5,619,706 in view of Brown Patent number 5,325,529. Young discloses a method and system that includes the use of two different and separate interrupt controllers which receive two different interrupt requests that transfer initializing data and, when needed, re-routes an interrupt request from one controller to other interrupt controller in order for the second interrupt controller to service the first type of interrupt (column 7, claim 1). The system also includes a memory subsystem that stores information and instructions for the processors to manage interrupts in the system (column 4, line 45).

Young does not expressly teach initializing interrupt controllers. However, initializing interrupt controllers in computer system is well known and expected in the art. Brown teaches initializing interrupt controllers at booting (see column 1 lines 21-26). It would have been obvious to include initializing interrupt controllers to Young for resetting interrupt priorities purpose.

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Claims 2-4 and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable 3. over Young and Brown as applied to claims 1,5,15 above, in view of Tavallaei et al. U.S. Patent No. 5,987,538. Referring to claims 2, 3, 6, 7, Young discloses a method and system that includes the use of two different and separate interrupt controllers which receive two different interrupt requests that transfer initializing data and, when needed, re-routes an interrupt request from one controller to other interrupt controller in order for the second interrupt controller to service the first type of interrupt but does not disclose configuring a system management interrupt (SMI) to recognize the initializing data of a first interrupt type. However, Tavallaei et al. teaches the use of programmable data entries, which provide information necessary to format an interrupt message or request (column 7, line 56). The entries are made up of vectors such as a vector field, a delivery mode field, destination field and a field for other purposes or otherwise reserved (column 8, 4<sup>th</sup> paragraph). Tavallaei also teaches the generation of interrupt messages such as a SMI (column 4, line 65). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify Young and Brown's invention to include such programmable data entries in the interrupt requests transferred to the interrupt controllers in order to include initializing data in the fields of the entry such as configuration instructions for the controllers and for the generation of SMIs.

Referring to claims 4, 8, Young further teaches a method and system that includes a first interrupt controller (circuit) which includes a programmable interrupt controller (PIC) and an advanced interrupt controller (APIC)(column 8, claim 8). It is well

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known that an 82C59 controller is a programmable interrupt controller and can be used in such a system.

### Examiner's Statement of Reasons for Allowance

- 4. Claims 9, 11-13 are allowable over the prior of records.
- 5. The following is an Examiner's statement of reasons for the indication of allowable subject matter: Claims 9, 11-13 are allowable over the prior art of record because the Examiner found neither prior art cited in its entirety, nor based on the prior art, found any motivation to combine any of the said prior arts. Prior art fails to teach instructions for sending interrupt controller initializing data to the first interrupt controller to initialize the first interrupt controller and instructions for re-routing interrupt controller initializing data to the second interrupt controller to initialize the second interrupt controller to initialize the second interrupt controller.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim T. Vo whose telephone number is 703-308-5862. The examiner can normally be reached on 7:30-5:00.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tim T. Vo

Primary Examiner

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2/8/04